

**LOW WORK FUNCTION MATERIAL****ABSTRACT OF THE DISCLOSURE**

5

A cathode includes a carbon nanotube layer, which is optimized with a low work function material, such as an alkali. The inclusion of the alkali material improves the field emission properties of the carbon nanotube layer.

::ODMA\PCDOCS\AUSTIN\_1\177531\1  
207:12179-P095US